

**BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME Susan E Swedo, M.D.		POSITION TITLE Chief, Pediatrics & Developmental Neuroscience Branch, National Institute of Mental Health	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Augustana College, Rock Island IL	B.A.	1977	Biology/Pre-Medicine
Southern Illinois University School of Medicine	M.D.	1980	Medicine
Children's Memorial Hospital (Northwestern Univ)	Residency	1983	Pediatrics

Please refer to the application instructions in order to complete sections A, B, C, and D of the Biographical Sketch.

**A) Personal Statement:**

The goals of our research are two-fold: to investigate the etiology, clinical presentation and potential therapeutic interventions of autism spectrum disorder and to study the etiology, treatment and prevention of acute-onset neuropsychiatric symptoms, such as obsessive compulsive disorder and related conditions. The proposed research project will investigate phenotypic heterogeneity of autism by using a novel paradigm of associative learning to evaluate its utility as a possible marker of autism risk. This protocol is complementary to other research under my direction in the Pediatrics and Developmental Neuropsychiatry Branch, such as our longitudinal phenotyping study: "Clinical and Immunological Investigations of Subtypes of Autism." I am co-Principal Investigator of the study, which has enrolled and is following 100 children with autism, as well as matched controls and contrast groups. My role in the proposed research will be overall supervision of the research activities, as well as consultation on pediatric issues and research procedures.

**B) Positions:**

Attending Staff at Searle Student Health Service and Evanston Hospital Dept of Pediatrics 1983-1986  
Head, Division of Adolescent Medicine, Evanston Hospital and Northwestern University 1984-86  
Research Fellow, Child Psychiatry Branch, NIMH Intramural Research Program 1986-88  
Senior Research Fellow, Child Psychiatry Branch, NIMH Intramural Research Program (IRP) 1988-1992  
Tenured Investigator and Head, Section on Behavioral Pediatrics, NIMH IRP 1992-1998  
(Acting) Deputy Scientific Director, NIMH Intramural Research Program 4/93-2/95  
(Acting) Scientific Director, NIMH Intramural Research Program 2/95 – 3/98  
Chief, Pediatrics & Developmental Neuroscience Branch, NIMH IRP 5/98 – 10/03  
Associate Director for Pediatric Research, National Institute of Mental Health 2003 – 2007  
Director, Division of Pediatric Translational Research and Treatment Development, NIMH 10/03 – 3/06  
Chief, Pediatrics & Developmental Neuroscience Branch, NIMH IRP 3/06-Present

**Honors & Awards:**

Obsessive Compulsive Foundation Young Investigators Award 1991  
American Academy of Child & Adolescent Psychiatry Award for Scientific Achievement, 1995  
Department of Health and Human Services Superior Service Award, 1995  
NIH Special Service and Merit Awards 1993, 1997, 1999, 2000, 2001  
Joel Elkes International Award for Outstanding Research in Psychopharmacology, ACNP, 2000  
NIMH/NINDS Outstanding Mentor Award, 2001  
Distinguished Alumna: Augustana College 2002; Southern Illinois University School of Medicine, 2005

**C) Selected Peer-Reviewed Publications (15 most recent)**

Shumway S, Thurm A, Swedo SE, et al. Brief Report: Symptom onset patterns and functional outcomes in young children with autism spectrum disorders. *J Autism Dev Disord* 2011 mar 1 (Epub ahead of print)

Grant P, Song JY, Swedo SE. Review of the use of the glutamate antagonist riluzole in psychiatric disorders and a description of recent use in childhood obsessive-compulsive disorder. *J Child Adolesc Psychopharmacol* 2010 Aug;20(4):309-15.

Kiringoda R, Thurm AE, Hirschtritt ME, et al. Risks of propofol sedation/anesthesia for imaging studies in pediatric research: eight years of experience in a clinical research center. *Arch Pediatric Adolesc Med* 2010 June; 164(6):554-60.

Kalra SK, Swedo SE. Children with obsessive-compulsive disorder: are they just "Little adults"? *J Clin Invest* 2009; 119(4):737-46.

Hirschtritt ME, Hammond CJ, Luckenbaugh D, Buhle J, Thurm AE, Casey BJ, Swedo SE. Executive and attention functioning among children in the PANDAS subgroup. *Child Neuropsychol* 2009 Mar 15(2):179-94.

Grant P, Lougee L, Hirschtritt M, Swedo SE. An open-label trial of riluzole, a glutamate antagonist, in children with treatment-resistant obsessive-compulsive disorder. *J Child Adolesc Psychopharmacol* 2007 Dec; 17(6):761-7.

Murphy TK, Sinder LA, Mutch PJ...Swedo S. Relationship of movements and behaviors to Group A streptococcus infections in elementary school children. *Biol Psychiatry* 2007; 61(3):279-84.

Kirvan CA, Cox CJ, Swedo SE, Cunningham MW. Tubulin is a neuronal target of autoantibodies in Sydenham's chorea. *J Immunol* 2007; 178(11): 7412-21.

Kirvan CA, Swedo SE, Kurahara D, Cunningham MW. Streptococcal mimicry and antibody-mediated cell signaling in the pathogenesis of Sydenham's chorea. *Autoimmunity* 2006;39(1):21-9.

Stein DJ, Arya M, Pietrini P, Rapoport JL, Swedo SE. Neurocircuitry of disgust and anxiety in obsessive-compulsive disorder: a positron emission tomography study. *Metab Brain Dis* 2006 Sep;21(2-3):267-77.

Kirvan CA, Swedo SE, Snider LA, Cunningham MW. Antibody-mediated neuronal cell signaling in behavior and movement disorders. *J Neuroimmunol* 2006;179(1-2):173-9.

Garvey MA, Snider LA, Leitman SF, Werden R, Swedo SE. Treatment of Sydenham's chorea with intravenous immunoglobulin, plasma exchange, or prednisone. *J Child Neurol* 20(5):424-9, 2005.

Asbahr FR, Garvey MA, Snider LA, Zanetta DM, Elkis H, Swedo SE. Obsessive-compulsive symptoms among patients with Sydenham chorea. *Biol Psychiatry* 57(9):1073-6, 2005.

Snider LA, Lougee L, Slattery M, Grant P, Swedo SE. Antibiotic prophylaxis with azithromycin or penicillin for childhood-onset Neuropsychiatric disorders. *Biol Psychiatry* 57(7):788-92, 2005.

Swedo SE, Grant PJ. Annotation: PANDAS: a model for human autoimmune disease. *J Child Psychol Psychiatry* 46(3):227-34, 2005

**D. Research Support**

Full salary and research resources from the Intramural Research Program, NIMH.

NIH Bench to Bedside Award (\$150,000 direct costs/year) -- PI: Susan Swedo, PI. Co-PIs: James Leckman (Yale) and Madeleine Cunningham (Univ OK). Funding period 11/1/2010-10/31/2012. Antibody Identification and Intravenous Immunoglobulin Administration for Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcal infection (PANDAS)